

Product datasheet for TP511527

Mical1 (NM_138315) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse microtubule associated monooxygenase, calponin and LIM domain containing 1 (Mical1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR211527 protein sequence Red =Cloning site Green =Tags(s)
	<p>MASPASTNPAHDHFETFVQAQLCQDVLSSFQGLCRALGVESGGGLSQYHKIKAQLNYWSAKSLWAKLDKR ASQPVYQQGQACTNTKCLVWGAGPCGLRAAVELALLGARVWLVEKRIKFSRHNVLHLWPFTIHDLRALGA KKFYGRFCTGTLDHISIRQLQLLLKVALLLGVEIHWGKFTGLQPPPRKGSWRAQLQPNPPAQLASYE FDVLISAAGGKFVPEGFTIREMRGKLAIGITANFVNGRTVEETQVPEISGVARIYNQKFFQSLLKATGID LENIVYYKDETHYFVMTAKKQCLLRLGVLRLQDLSETDQLLGKANVPEALQRFARAAADFATHGKLGKLE FAQDARGRPDVAADFDTSMRAESSARVQEKHGARLLLGLVGDCLVEPFWPLGTGVARGFLAAFDAAWMV KRWAEGAGPLEVLAERESLYQLLSQTSPEMHRNVAQYGLDPATRYPNLNLRAVTPNQVQDLYDMMMDKEH AQRKSDEPDSRKTGTSAGTEELLHWCQEQTAGFPVHVTDFFSSSWADGLALCALVHHLQPLLEPSELQ GMGALEATTWALRVAEHELGITPVLSAQAVMAGSDPLGLIAYLSHFHSAFKNTSHSSGLVSQPSGTPSAI LFLGKLQRSLQRTRAKVDEETPSTEPPVSEPSMSPNTPELSEHQEAGAEELCELCKHLYILERFCVDG HFFHRSCFCCHTCEATLWPGGYGQHPGDGHFYCLQHLPQEDQKEADNNGSLESQELPTPGDSNMQDPSS PPVTRVSPVSPSPARRLIRLSSLERLRLSSLNIIPDSGAEPKPPRSCDLARESLSKSSVFGWGVV QAPQVPEAIEKGDDEEEEEEEEEEEPLPPELEPELQTLTLAKNPGAMTKYPTWRRTLMRRAKEEMK RFCKAQAIQRRNEIATMRELEAEGTKLELALRKESSPEQQKWLWDQLLRLIQKKNLSLVTEAEELMI TVQELDLEEKQRQLDHELRYMREETMKTEADLQSENQVLRKLLLEVNRDALIQFQEERRREMPA</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-MYC/DDK
Predicted MW:	116.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_612188
Locus ID:	171580
UniProt ID:	Q8VDP3
RefSeq Size:	3563
Cytogenetics:	10 B1
RefSeq ORF:	3147
Synonyms:	MICAL; MICAL-1; Nical
Summary:	Monooxygenase that promotes depolymerization of F-actin by mediating oxidation of specific methionine residues on actin to form methionine-sulfoxide, resulting in actin filament disassembly and preventing repolymerization. In the absence of actin, it also functions as a NADPH oxidase producing H ₂ O ₂ (By similarity). Acts as a cytoskeletal regulator that connects NEDD9 to intermediate filaments. Also acts as a negative regulator of apoptosis via its interaction with STK38 and STK38L; acts by antagonizing STK38 and STK38L activation by MST1/STK4. Involved in regulation of lamina-specific connectivity in the nervous system such as the development of lamina-restricted hippocampal connections. Through redox regulation of the actin cytoskeleton controls the intracellular distribution of secretory vesicles containing L1/neurofascin/NgCAM family proteins in neurons, thereby regulating their cell surface levels. May act as Rab effector protein and play a role in vesicle trafficking.[UniProtKB/Swiss-Prot Function]